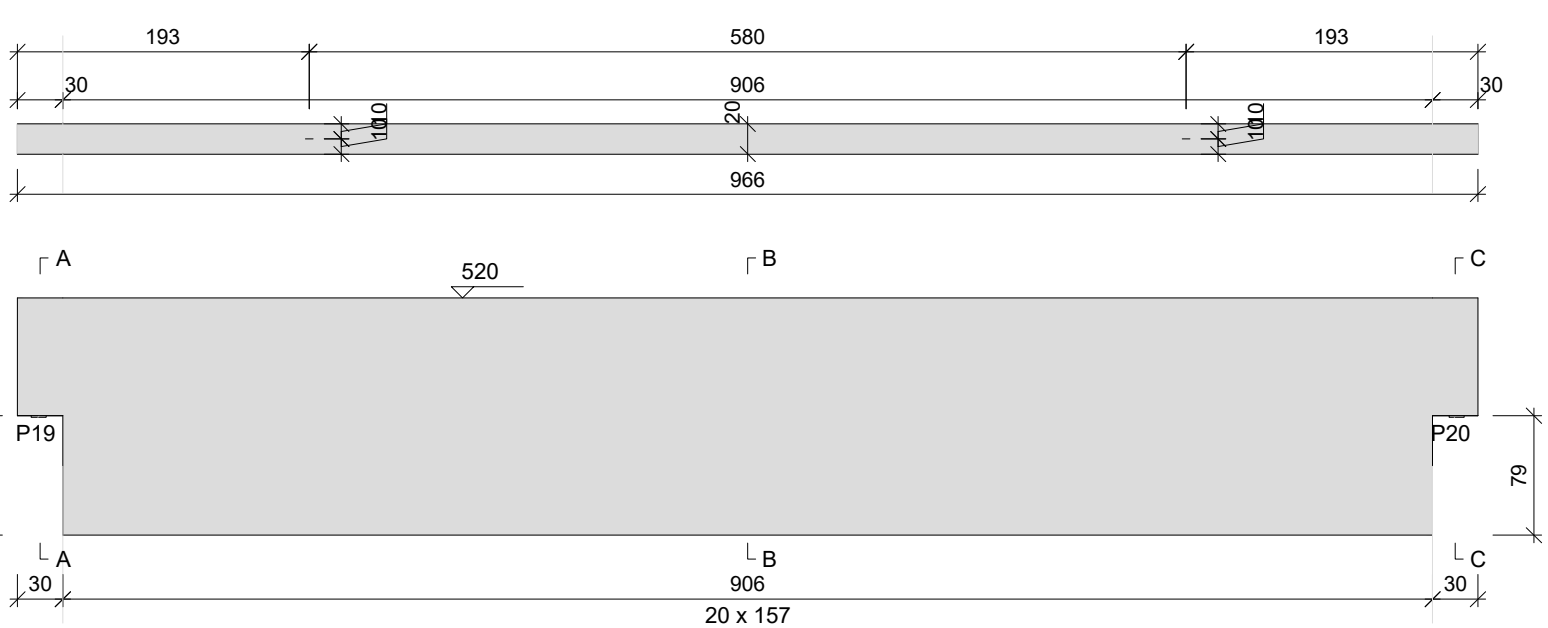
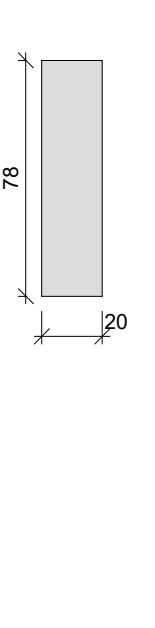


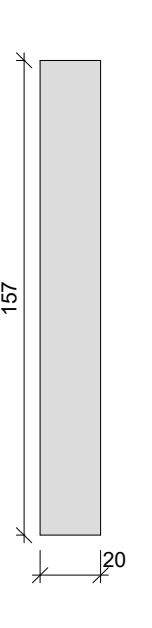
V7  
ESC 1:50



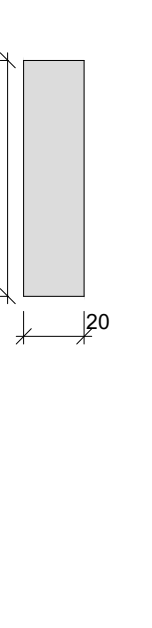
SEÇÃO A-A  
ESC 1:25



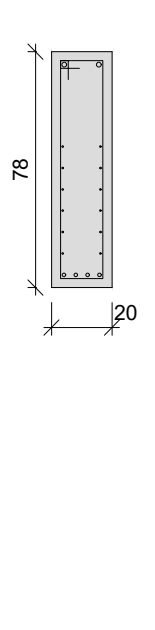
SEÇÃO B-B  
ESC 1:25



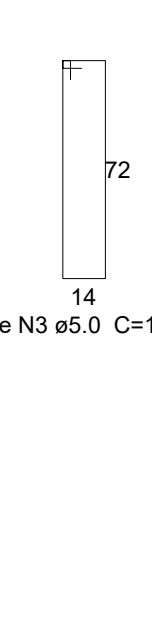
SEÇÃO C-C  
ESC 1:25



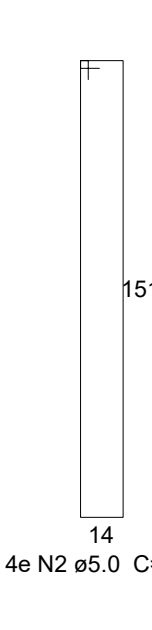
SEÇÃO A-A  
ESC 1:25



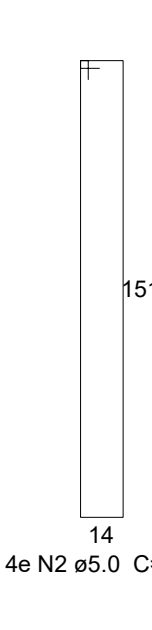
SUSPENSÃO A-A  
ESC 1:25



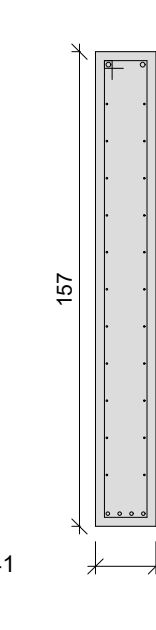
SEÇÃO B-B  
ESC 1:25



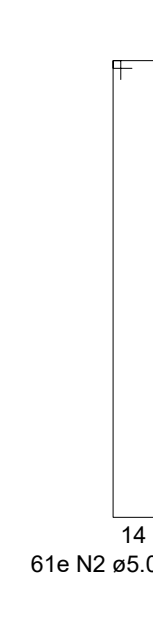
SUSPENSÃO B-B  
ESC 1:25



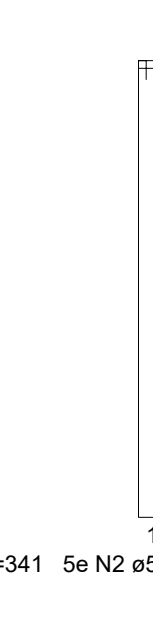
SEÇÃO C-C  
ESC 1:25



SUSPENSÃO C-C  
ESC 1:25



SEÇÃO C-C  
ESC 1:25



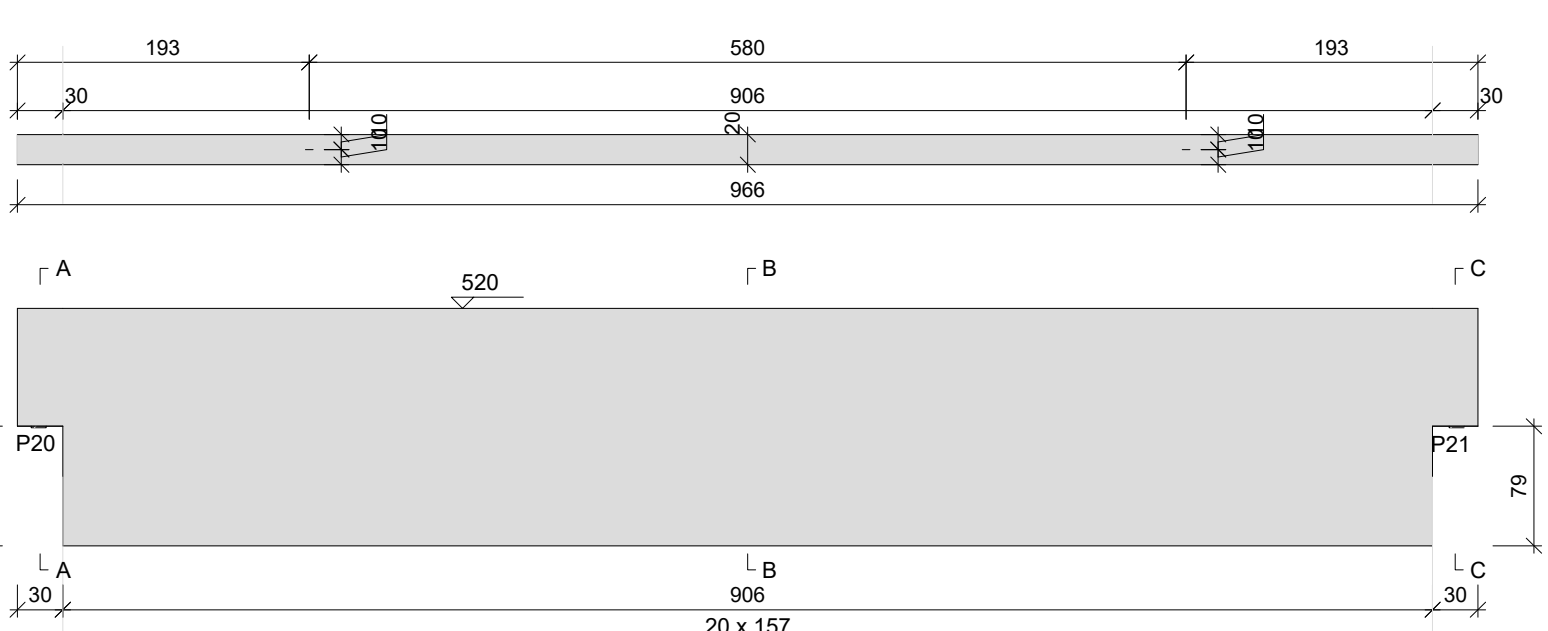
Relação das alças de içamento				
Qtdte.	Aço	Ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	20	154	350

Relação do aço					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	183	2196
	2	5.0	70	341	23870
	3	5.0	8	183	1464
CA50	5	6.3	22	910	20020
	7	12.5	4	310	1240
	8	12.5	4	914	3656
	11	16.0	2	960	1920

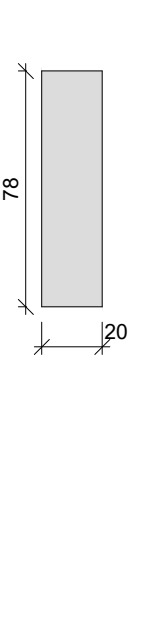
Resumo do aço				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)	
CA50	6.3	200.2	49	
	12.5	49	47.2	
	16.0	19.2	30.3	
CA60	5.0	275.3	42.4	
PESO TOTAL (kg)				
CA50	126.5			
CA60	42.4			

Volume de concreto (C=40) = 2.94 m³  
Peso total = 7346.1 kg

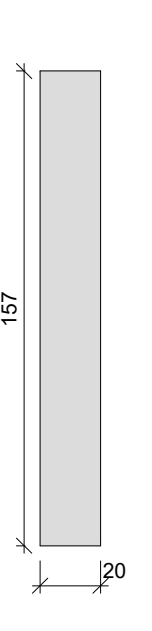
V8  
ESC 1:50



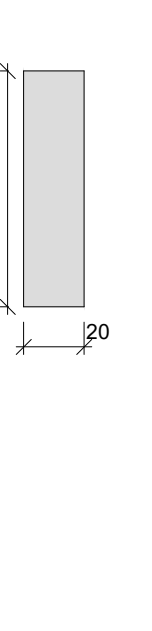
SEÇÃO A-A  
ESC 1:25



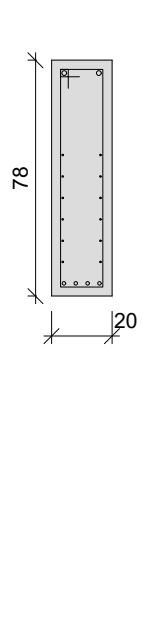
SEÇÃO B-B  
ESC 1:25



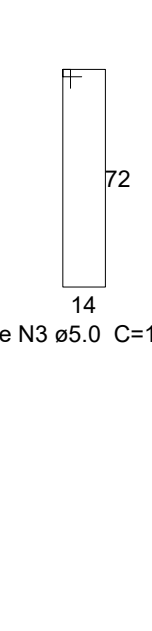
SEÇÃO C-C  
ESC 1:25



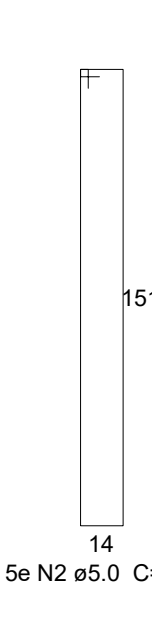
SEÇÃO A-A  
ESC 1:25



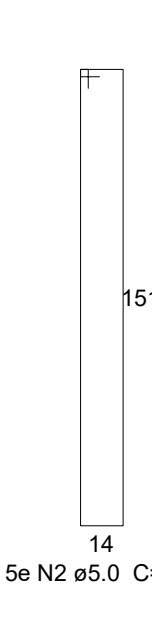
SUSPENSÃO A-A  
ESC 1:25



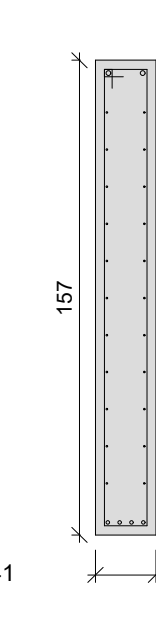
SEÇÃO B-B  
ESC 1:25



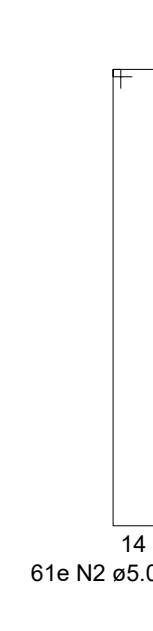
SUSPENSÃO B-B  
ESC 1:25



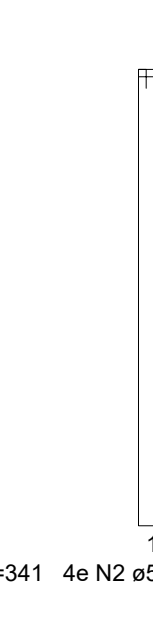
SEÇÃO C-C  
ESC 1:25



SUSPENSÃO C-C  
ESC 1:25



SEÇÃO C-C  
ESC 1:25



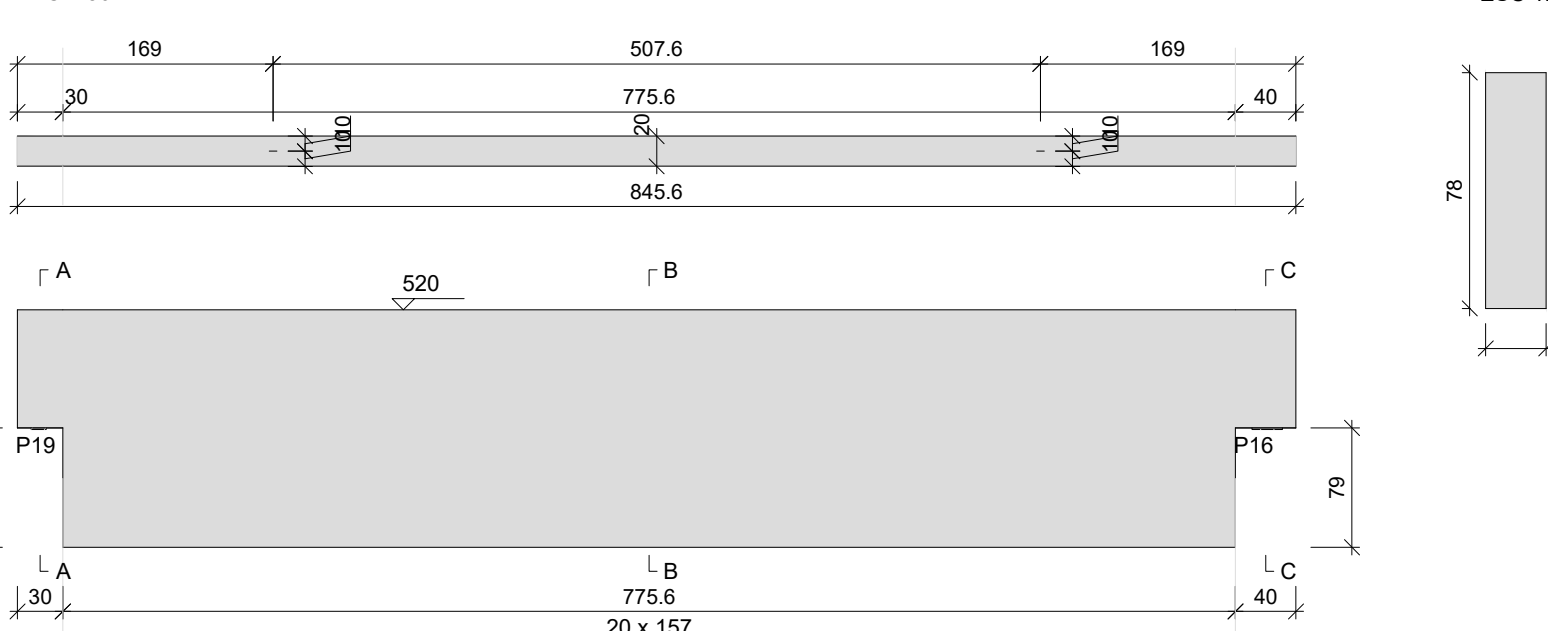
Relação das alças de içamento				
Qtdte.	Aço	Ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	20	154	350

Relação do aço					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	183	2196
	2	5.0	70	341	23870
	3	5.0	8	183	1464
CA50	5	6.3	22	910	20020
	7	12.5	4	310	1240
	8	12.5	4	914	3656
	11	16.0	2	960	1920

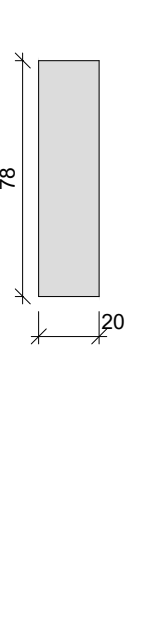
Resumo do aço				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)	
CA50	6.3	200.2	49	
	12.5	49	47.2	
	16.0	19.2	30.3	
CA60	5.0	275.3	42.4	
PESO TOTAL (kg)				
CA50	126.5			
CA60	42.4			

Volume de concreto (C=40) = 2.94 m³  
Peso total = 7346.1 kg

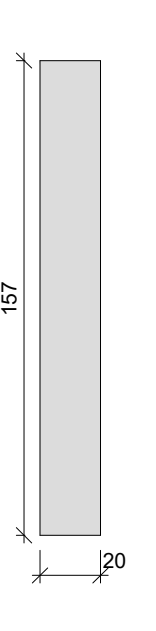
V9  
ESC 1:50



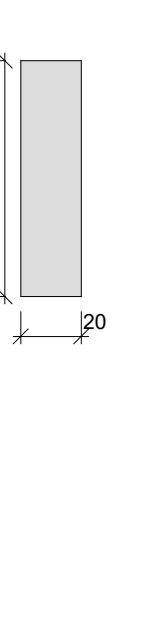
SEÇÃO A-A  
ESC 1:25



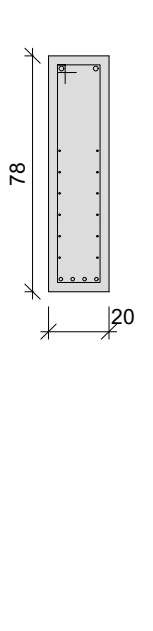
SEÇÃO B-B  
ESC 1:25



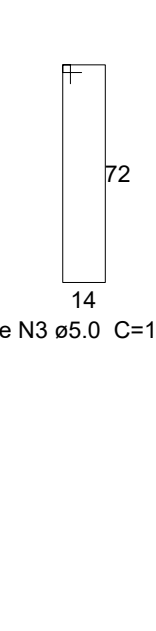
SEÇÃO C-C  
ESC 1:25



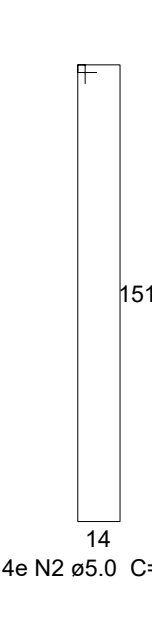
SEÇÃO A-A  
ESC 1:25



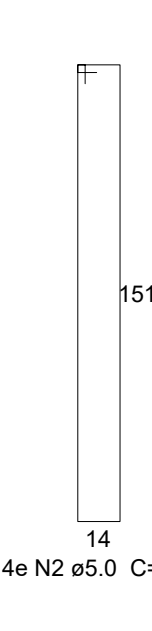
SUSPENSÃO A-A  
ESC 1:25



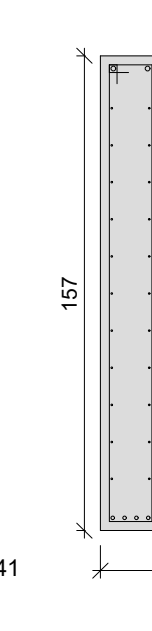
SEÇÃO B-B  
ESC 1:25



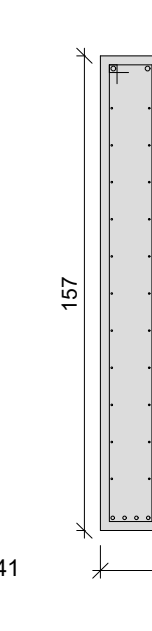
SUSPENSÃO B-B  
ESC 1:25



SEÇÃO C-C  
ESC 1:25



SUSPENSÃO C-C  
ESC 1:25



Relação das alças de içamento				
Qtdte.	Aço	Ø (mm)	C. Anc. (cm)	C. Unit. (cm)
2	ASTM A36	20	154	350

Relação do aço					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	6	183	1098
	4	5.0	6	203	1218
	2	5.0	59	341	20119
CA50	3	5.0	9	183	1647
	6	6.3	22	780	17160
	7	12.5	2	310	620
	9	12.5	2	330	660
CA60	10	12.5	4	784	3136
	12	16.0	2	840	1680

Resumo do aço				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)	
CA50	6.3	171.6	42	
	12.5	44.2	42.5	
	16.0	16.8	26.5	
CA60	5.0	240.9	37.1	
PESO TOTAL (kg)				
CA50	111			
CA60	37.1			

Volume de concreto (C=40) = 2.54 m³  
Peso total = 6361.46 kg

Relação do aço

Relação do aço					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	30	183	5490
	2	5.0	109	341	37099
	3	5.0	25	183	4575
CA50	4	5.0	6	203	1218
	5	6.3	44	910	40040
	6	6.3	22	780	17160
	7	12.5	10	310	3100
CA50	8	12.5	8	914	7312
	9	12.5	2	330	660
	10	12.5	4	784	3136
	11	16.0	4	840	3360
CA60	12	16.0	2	840	1680

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)	
CA50	6.3	572	140	
	12.5	142.1	136.9	
	16.0	55.2	87.1	
CA60	5.0	791.5	122	
PESO TOTAL (kg)				
CA50	364			
CA60	122			

Volume de concreto (C=40) = 8.42 m³



FUNDAÇÃO PARA O DESENVOLVIMENTO TECNOLÓGICO DA ENGENHARIA



MUNICÍPIO DE HORTOLÂNDIA

Administração  
JOSE NAZARENO  
JEFE GOMES  
2021-2024

Projeto: FUNDAÇÃO PARA O DESENVOLVIMENTO TECNOLÓGICO DA ENGENHARIA			Obra: CONSTRUÇÕES ANEXOS - ENTORNO DO PAÇO	
Coordenador do Projeto: ANTONIO CARLOS FONSECA			Local: PROLONG. ESTRADA SABINA BAPTISTA DE CAMARGO	Nº Contrato: 189/2023
Elaboração: JULIO CEZAR TONETTI	RTTART: 28027230231457406 CAUQUEIA: 0604020448-SP	Valor:	Nome: ESTUDOS E PROJETOS DE ESTRUTURA - ANEXO I - VIGAS SUPERIORES	Código: DE-FB-3-08-01-EST-015
	RTTART: 13700905 CAUQUEIA: A68108-9	Valor:	SECRETARIA MUNICIPAL DE OBRAS DEPARTAMENTO DE PROJETOS - APROVAÇÃO SECRETARIA MUNICIPAL DE OBRAS DEPARTAMENTO DE PROJETOS - APROVAÇÃO SECRETARIA DE MOBILIDADE URBANA DEPARTAMENTO DE PROJETOS - APROVAÇÃO	Assinatura: 12/2023 Assinatura: 01 Assinatura: 1:50 Assinatura: 15/30